

Notice of Allowability

Application No.

10/615,979

Examiner

Thu V. Huynh

Applicant(s)

YASHIRO, SADA O

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2178

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 06/20/07.
2. ☒ The allowed claim(s) is/are 1-18, now renumbered as 1, 5-6, 2-4, 8, 7, 9, 12, 13, 10, 11, 15, 14, 16-18 respectively.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT AND REASONS FOR ALLOWANCE

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Paul W. Bobowiec on 08/27/07.

The application has been amended as follows:

Please replace claim 1 as follows:

1. A method for converting a structured document comprising:
dividing, by a computer, a structured document in XML format, which is composed of tagged documents listed sequentially and ordered hierarchically, by tags, in a file; and

converting said structured document into tagged documents that added positional information comprising an index indicating an order of a respective tagged document in the structured document and a depth of the respective tagged document defined by the XML structured document format in said structured document,

wherein said converting comprises converting the structured document into a new structured document in XML format by adding said index and said depth information as attribute values restricted by a namespace so that the structured document can be restored.

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Please replace claim 2 as follows:

2. A method for converting a structured document comprising:

dividing, by a computer, a structured document in XML format, which is composed of tagged documents listed sequentially and ordered hierarchically, by tags, in a file; and

converting said structured document into tagged documents in XML format that added positional information comprising an index indicating an order of a respective tagged document in the structured document and a depth of the respective tagged document defined by the XML structured document format in said structured document,

wherein said converting comprises adding said positional information as attribute information in respective tags so that the structured document can be restored.

Please replace claim 9 as follows:

9. A method for converting and restoring a structured document in XML format, comprising:

dividing, by a computer, a structured document in XML format, which is composed of tagged documents listed sequentially and ordered hierarchically, by tags, in a file;

converting said structured document into tagged documents that added positional information comprising an index indicating an order of a respective tagged document in the structured document and a depth of the respective tagged document defined by the XML structured document format in said structured document;

rearranging said tagged documents in accordance with said added positional

information of said converted tagged documents; and

restoring said structured document in XML format by deleting said positional information from said tagged documents,

wherein said converting comprises converting the structured document into a new structured document in XML format by adding said index and said depth information as attribute values restricted by a namespace.

Please replace claim 10 as follows:

10. A method for converting and restoring a structured document, comprising:
dividing a structured document in XML format, which is composed of tagged documents listed sequentially and ordered hierarchically, by tags, in a file;

converting said structured document into tagged documents that added positional information comprising an index indicating an order of a tagged document in the structured document and a depth of the tagged document defined by the XML structured document format in said structured document,

rearranging said tagged documents in accordance with said added positional information of said converted tagged documents; and

restoring said structured document in XML format by deleting said positional information from said tagged documents,

wherein said converting comprises adding said positional information as attribute information in respective tags.

Please replace claim 16 as follows:

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16. A computer readable storage medium stored program for converting a structured document, said program comprising:

a program for dividing a structured document in XML format, which is composed of tagged documents listed sequentially and ordered hierarchically, by tags; and

a program for converting said structured document into tagged documents that added positional information comprising an index indicating an order of a respective tagged document in the structured document and a depth of the respective tagged document defined by the XML structured document format in said structured document,

wherein said converting program comprises a program for converting the structured document into a new structured document in XML format by adding said index and said depth information-as attribute values restricted by a namespace so that the structured document can be restored.

Please replace claim 18 as follows:

18. A computer readable storage medium stored program for converting and restoring a structured document in XML format, said program comprising:

a program for dividing a structured document in XML format, which is composed of tagged documents listed sequentially and ordered hierarchically, by tags;

a program for converting said structured document into tagged documents that added positional information comprising an index indicating an order of a respective tagged document in the structured document and a depth of the respective tagged document defined by the XML structured document format in said structured document;

a program for resorting said tagged documents in accordance with said added

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positional information of said converted tagged documents; and

a program for deleting said positional information from said tagged documents, wherein said converting program comprises a program for converting the structured document into a new structured document in XML format that added index and depth information for said structured documents as attribute values restricted by a namespace.

2. The following is an examiner's statement of reasons for allowance:

Regarding independent claims 1, 2, 9, 10, 16 and 18 (renumbered as claims 1, 2, 9, 12, 16 and 18 respectively), the features of converting an XML document comprising tagged documents by adding position information indicating an order and a depth of a tagged document as attribute values directly into the XML document so that the XML document is restored after the converting are not shown and would not have been obvious to a person of ordinary skill in the art at the time of the invention in view of the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu V. Huynh whose telephone number is (571) 272-4126. The examiner can normally be reached on Monday to Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen S. Hong can be reached on (571) 272-4124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


STEPHEN HONG
SUPERVISORY PATENT EXAMINER

TVH
August 31, 2007